

9761-210

16-Point 0-5 V Current Input Panel

Triconex 9761-210 is a sixteen-point current-input termination panel. It powers field transmitters and converts their current into 0-5 V signals for compatible Tricon modules.

PRODUCT SNAPSHOT

BRAND

Triconex

FAMILY

Tricon v9-v10 analog input termination

PART

9761-210

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PRODUCT OVERVIEW

Triconex 9761-210 is a sixteen-point current-input termination panel. It powers field transmitters and converts their current into 0-5 V signals for compatible Tricon modules.

1

Supplies and terminates sixteen field current loops

2

Uses precision 250-ohm shunts to convert loop current into 0-5 V inputs

3

Combines two 24 VDC transmitter supplies through diode ORing

4

Pairs two panels with a thirty-two-point analog or HART input module

SYSTEM COMPONENTS

3700, 3700A, or 3721 analog-input module

2770H HART interface module

4000103-510 I/O cable

redundant 24 VDC transmitter supplies

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
Triconex 3504E	High-Density Digital Input Module	Open product page
Triconex 3008	Main Processor Module	Open product page
Triconex 4210	Remote Extender Module Set	Open product page
Triconex 4119A	Enhanced Intelligent Communication Module	Open product page

TECHNICAL DATA

PARAMETER	VALUE
Panel type	Current input
Input points	16
Voltage conversion	0 to 5 VDC
Positive-terminal resistor	180 Ohm series
Input shunt	250 Ohm precision
Power outputs	16
Current inputs	16
Power sources	Redundant 24 VDC

PARAMETER	VALUE
Power combining	Diode ORing
Compatible modules	2770H; 3700; 3700A; 3721
Panels for 32-point module	2
Panel width	4.5 in (11.43 cm)
Panel length	5 in (12.7 cm)
Panel height	4.25 in (10.795 cm)
ETA number	3000510-510
Associated cable	4000103-510

TECHNICAL NOTE

Verify redundant transmitter supplies, 180-ohm feed resistors, 250-ohm conversion shunts, loop polarity, and scaling before enabling channels connected through 9761-210.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Four-to-twenty-milliamp safety transmitter termination

Supplies and terminates sixteen field current loops

HART input-interface connection

Uses precision 250-ohm shunts to convert loop current into 0-5 V inputs

Redundant transmitter-power distribution

Combines two 24 VDC transmitter supplies through diode ORing

Thirty-two-point analog loop split-panel wiring

Pairs two panels with a thirty-two-point analog or HART input module

PRODUCT PRECAUTIONS

- 1 Verify 9761-210 and the connected 0-5 V input module before disturbing loops.
- 2 Place affected transmitter-based safety functions in the approved maintenance state.
- 3 Isolate both 24 VDC supplies and record loop polarity plus channel assignment.
- 4 Confirm the 180-ohm series feed and 250-ohm input shunt remain intact.
- 5 Keep the two panels correctly labeled when serving a thirty-two-point module.
- 6 Preserve shield grounding and the documented HART interface arrangement where used.
- 7 Measure transmitter supply and converted voltage at representative current values.
- 8 Prove channel scaling, diagnostics, alarms, and trip logic before release.

ENGINEER FAQ

Q1 How should an engineer verify 250-ohm 0-5 V conversion for 9761-210?

Use the approved connection drawing and the model-specific values in Field Terminations Guide for Tricon v9-v10 Systems; preserve the as-found terminal, connector, polarity, shield, and channel identity.

Q3 Which installation error is most important to prevent on 9761-210?

Do not interchange 9761-210 with an adjacent execution or alter its matched 3700, 3700A, or 3721 analog-input module; the exact electrical, channel, and connector arrangement must be retained.

Q5 Which diagnostics should be reviewed after installing 9761-210?

Review the applicable point, module, power, communication, or load indicators for 9761-210, then confirm the intended role: supplies and terminates sixteen field current loops.

Q7 What evidence should be retained after two-panel thirty-two-point assignment testing on 9761-210?

Retain the full 9761-210 identity, as-left connections or settings, final diagnostics, measured functional-test result, and authorization to return the affected process function to service.

Q2 What check is required for dual 24 VDC diode-OR power when commissioning 9761-210?

Apply a controlled signal or command within the documented range and compare the field result, controller indication, and product diagnostics before normal operation.

Q4 How is 2770H HART pairing handled during a 9761-210 replacement?

Record the installed state first, isolate the associated process function, reproduce only the approved model-specific arrangement, and verify it before energization.

Q6 Can 9761-210 be substituted for a similar Triconex model without a configuration review?

No. Confirm the exact model, companion hardware, signal execution, system version, and approved configuration before any substitution.

Q8 Which installed hardware must be matched before fitting 9761-210?

Match 9761-210 to 3700, 3700A, or 3721 analog-input module and 2770H HART interface module, then confirm the complete physical marking and assigned Tricon v9-v10 analog input termination position.